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APPLICATION NO.	D. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,845	09/17/2003		Koichi Kawamura	Q77366	2854
23373	7590	09/22/2005		EXAMINER	
SUGHRUE MION, PLLC JACKSON, MONIQU					MONIQUE R
2100 PENNSY	LVANI	A AVENUE, N.W.		<u></u>	
SUITE 800				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20037				1773	

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
057 4.4'0	10/663,845	KAWAMURA ET	AL.				
Office Action Summary	Examiner	Art Unit					
	Monique R. Jackson	1773					
The MAILING DATE of this communication appearing for Reply	opears on the cover sheet with t	the correspondence ac	idress				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a repty d will apply and will expire SIX (6) MONTHS tte, cause the application to become ABANE	TION. be timely filed from the mailing date of this concept (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23.	June 2005.						
	is action is non-final.						
•							
Disposition of Claims							
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application							
4a) Of the above claim(s) is/are withdra							
5) Claim(s) is/are allowed.		•	,				
6)⊠ Claim(s) <u>1-4</u> is/are rejected.	<u> </u>						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9) The specification is objected to by the Examir	ner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documer							
2. Certified copies of the priority documer	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Burea	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)		mary (PTO-413) ail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	<u> </u>	mal Patent Application (PTC	O-152)				



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DETAILED ACTION

1. The amendment filed 6/23/05 has been entered. New claims 3-4 have been added. Claims 1-4 are pending in the application.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Kawamura et al (US 2004/0001947 A1.) Kawamura et al teach a surface functional member comprising a support having a surface on which a graft polymer having a nonionic polar group in the side chain thereof is bonded and provided thereon a layer of adsorbed fine metallic particles capable of polarly bonding to the polar group wherein the polar group is a heteroaromatic group such as a pyridine group as instantly claimed (Abstract; Paragraphs 0018 and 0023, claims.)

Claim Rejections - 35 USC § 103

5. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horowitz et al (USPN 3,998,602.) Horowitz et al teach a method of metal plating polymeric substrates wherein polyfunctional monomers form a grafted polymer layer on the surface of the substrate and then metal plating is conducted onto the grafted polymer layer wherein the grafting and

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polymerization is initiated by a very small amount of silver ions such that metallic silver as well as silver ions are held by ionic or polar interactions with the functional groups of the grafted chains, wherein the polyfunctional monomers include a number of monomers including pyridine compounds (Abstract; Col. 2, lines 32-49; Col. 5, lines 1-23.) Hence, one having ordinary skill in the art at the time of the invention would have been motivated to select any of the functional monomers taught by Horowitz et al include pyridine compounds and wherein the metallic silver as well as the metal plated onto the grafted layer read upon the instantly claimed layer of adsorbed fine metal particles capable of polarly bonding to the polar groups of the side chains of the grafted polymer.

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 1-4 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8 of copending Application No. 10/374,079 in view of Horowitz et al or Kang et al (USPN 6,334,926). The copending application claims a surface functional member comprising a support having a surface on which a graft polymer having a nonionic polar group in the side chain thereof is bonded and

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provided thereon a layer of adsorbed fine metallic particles capable of polarly bonding to the polar group but does not claim that the polar group in the side chain is a pyridine group as instantly claimed. However, Horowitz et al and Kang et al both teach that a polymer surface may be modified with a grafted polymer having pyridine groups to facilitate metal plating or metal adhesion and hence pyridine functional groups would have been obvious to one having ordinary skill in the art at the time of the invention.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Response to Arguments

- 8. Applicant's arguments with respect to claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this 9. Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monique R. Jackson whose telephone number is 571-272-1508. The examiner can normally be reached on Mondays-Thursdays, 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on 571-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Monique R. Jackson Primary Examiner

Technology Center 1700

September 19, 2005